## CLAIMS

- 1. A polyisobutylene-polyolefin copolymer produced by cationic polymerization in the presence of a vinylidene-terminated polyolefin macromonomer to produce a polymer segment mainly composed of isobutylene.
- 2. The polyisobutylene-polyolefin copolymer according to claim 1, wherein the cationic polymerization is living cationic polymerization.
- The polyisobutylene-polyolefin copolymer according to
  claim 1 or 2, wherein the vinylidene-terminated polyolefin macromonomer is a vinylidene-terminated polypropylene macromonomer.
  - 4. A composition comprising the polyisobutylene-polyolefin copolymer according to any one of claims 1 to 3 and a polyolefin resin.

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- 5. The composition according to claim 4, wherein the polyolefin resin is polypropylene, a propylene copolymer, or a mixture thereof.
- A process for producing a polyisobutylene-polyolefin
  copolymer, comprising performing cationic polymerization in the presence of a vinylidene-terminated polyolefin macromonomer to produce a polymer segment mainly composed of isobutylene.
- 7. The process according to claim 6, wherein the cationic polymerization is living cationic polymerization.

8. The process according to claim 6 or 7, wherein the vinylidene-terminated polyolefin macromonomer is a vinylidene-terminated polypropylene macromonomer.